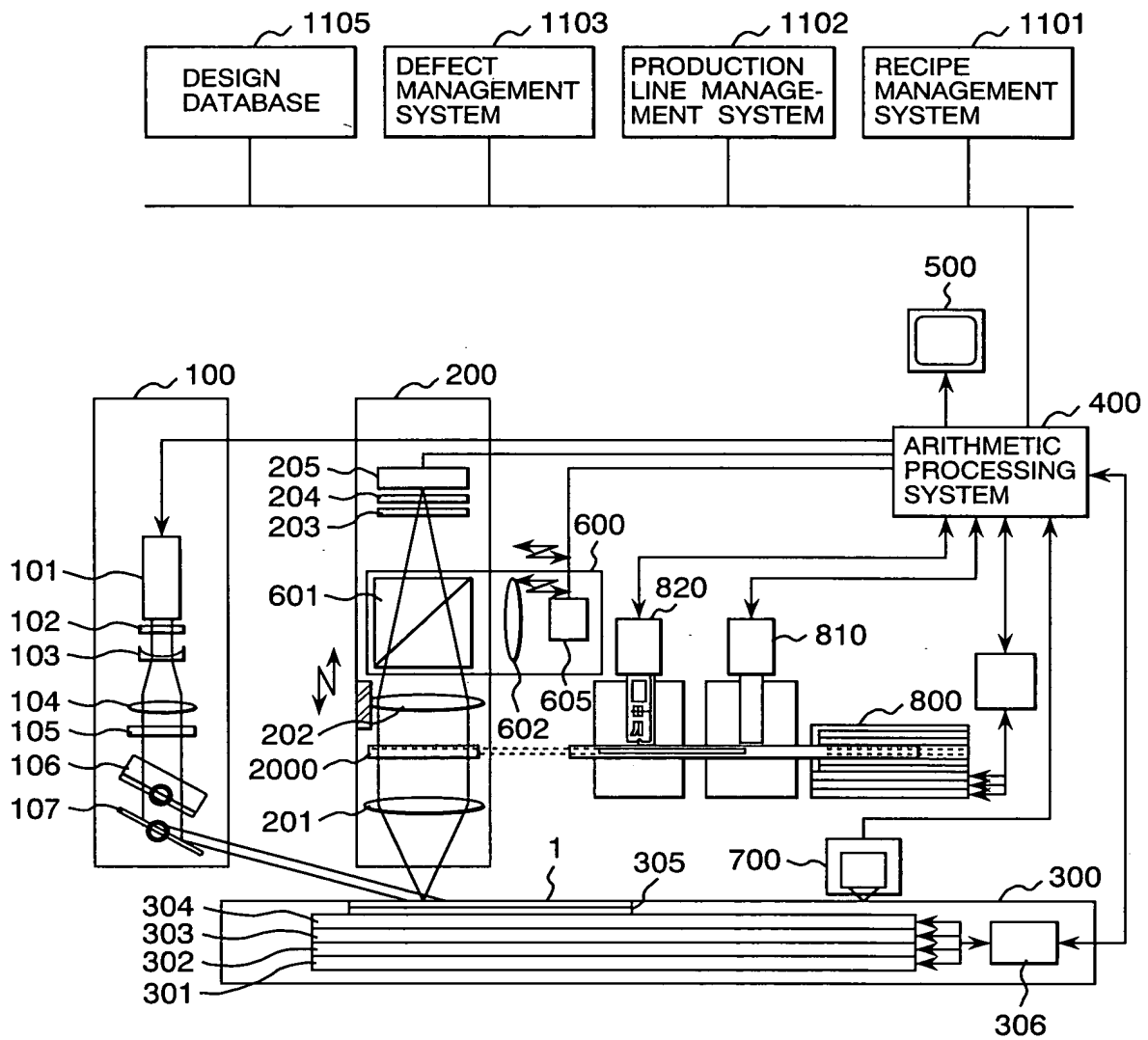
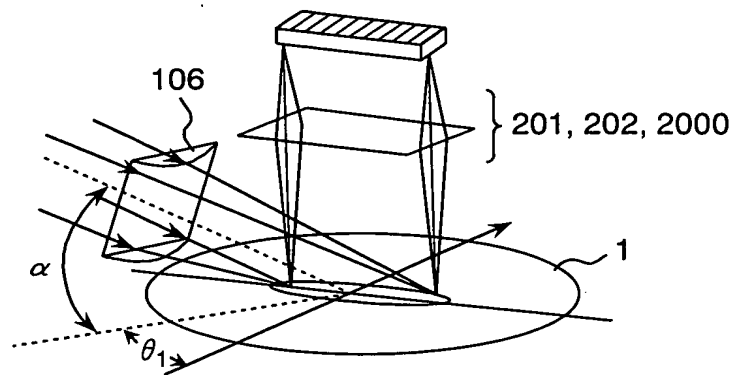
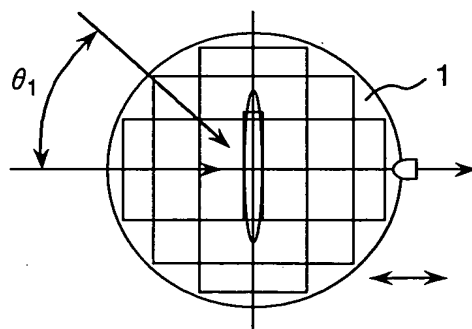


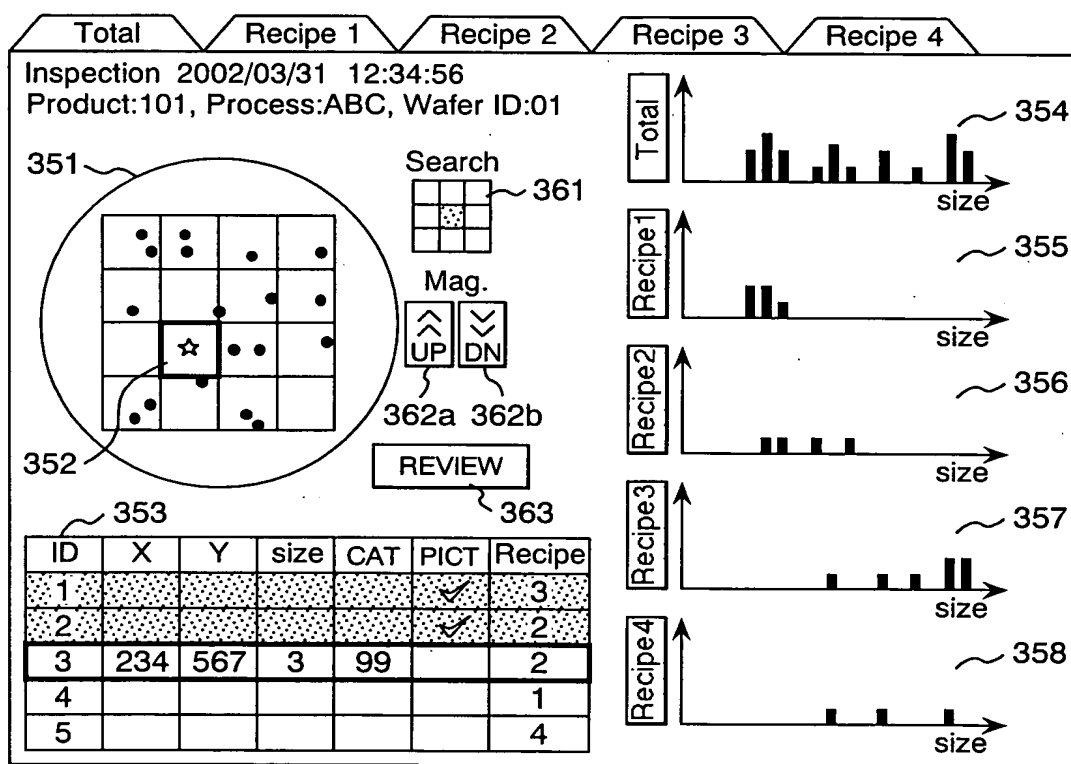
**FIG. 1**

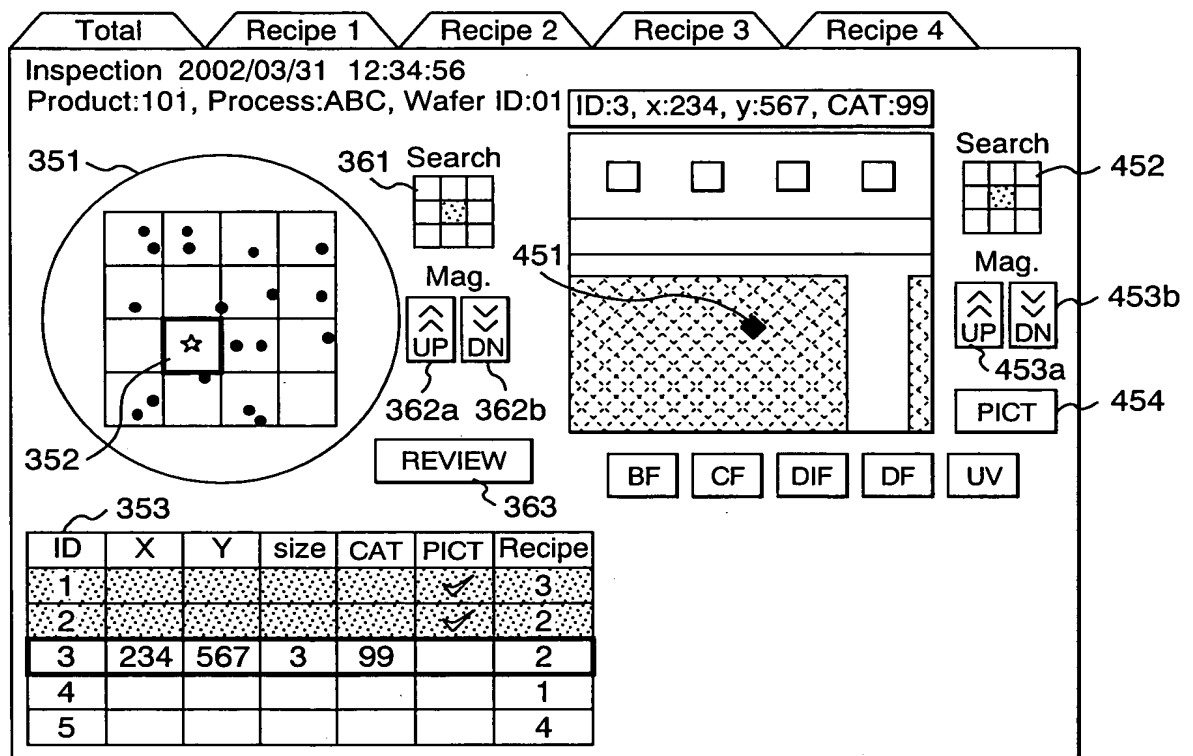
**FIG. 2A**

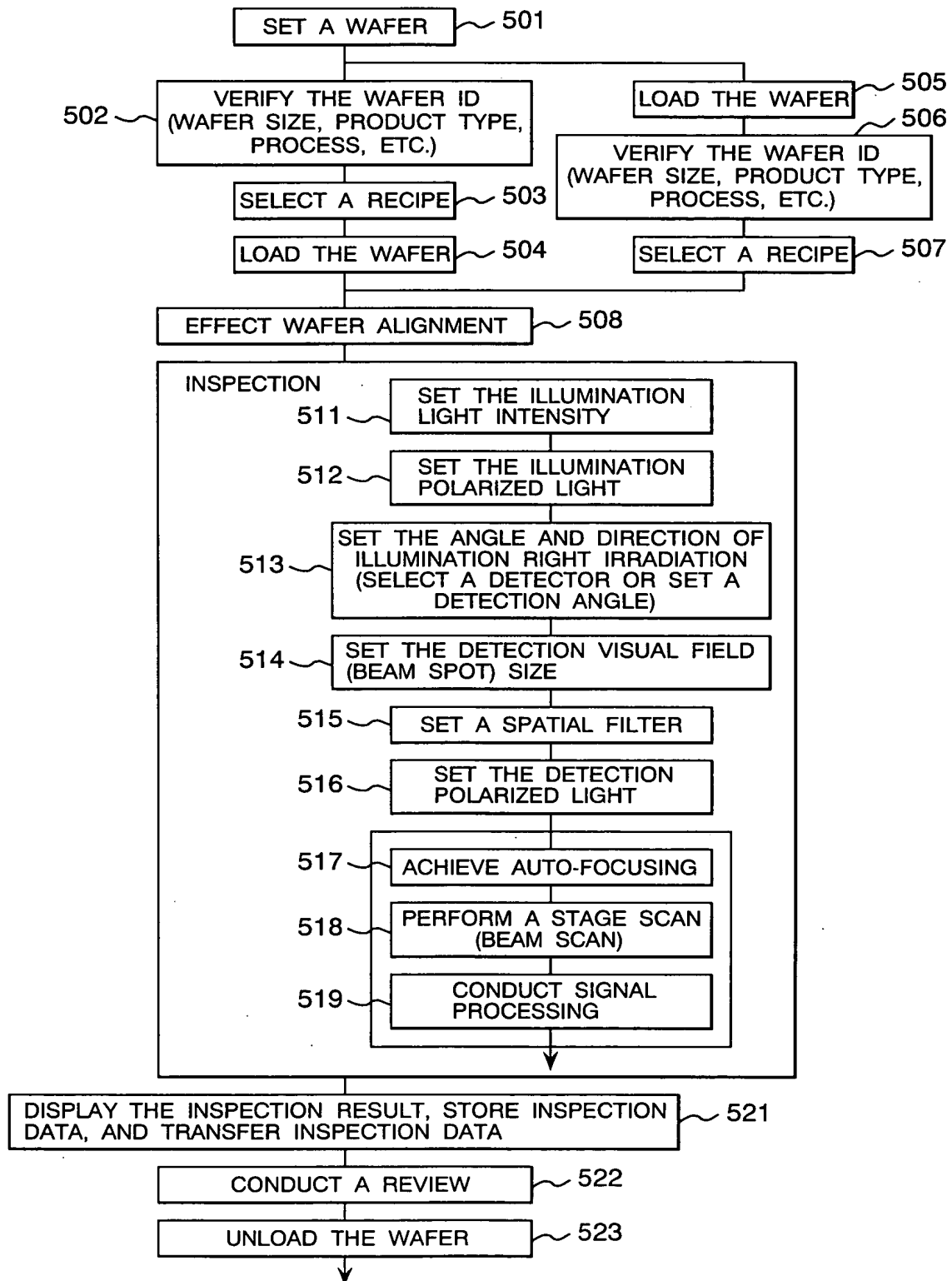


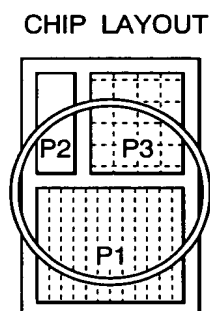
**FIG. 2B**



**FIG. 3**

**FIG. 4**

**FIG. 5**

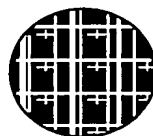
**FIG. 6A****FIG. 6B**

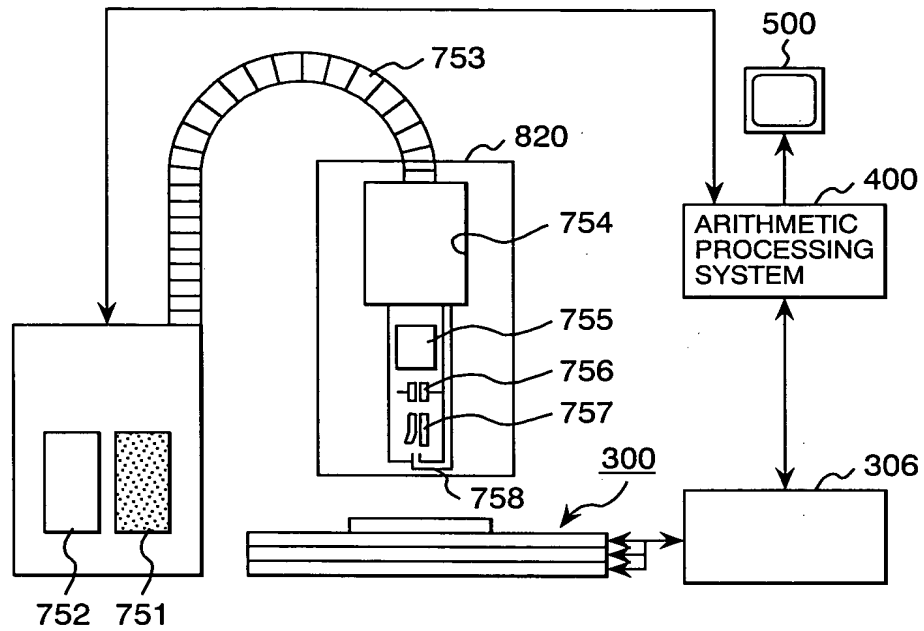
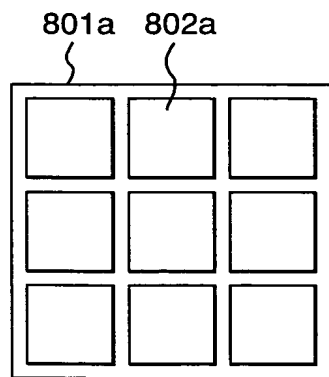
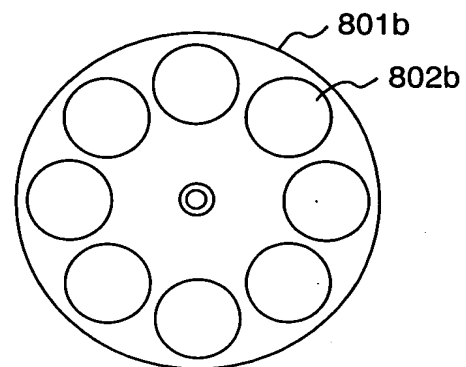
PATTERN ON WAFER	P1	P2	P3
DIFFRACTED LIGHT PATTERN	FP1	FP2	FP3

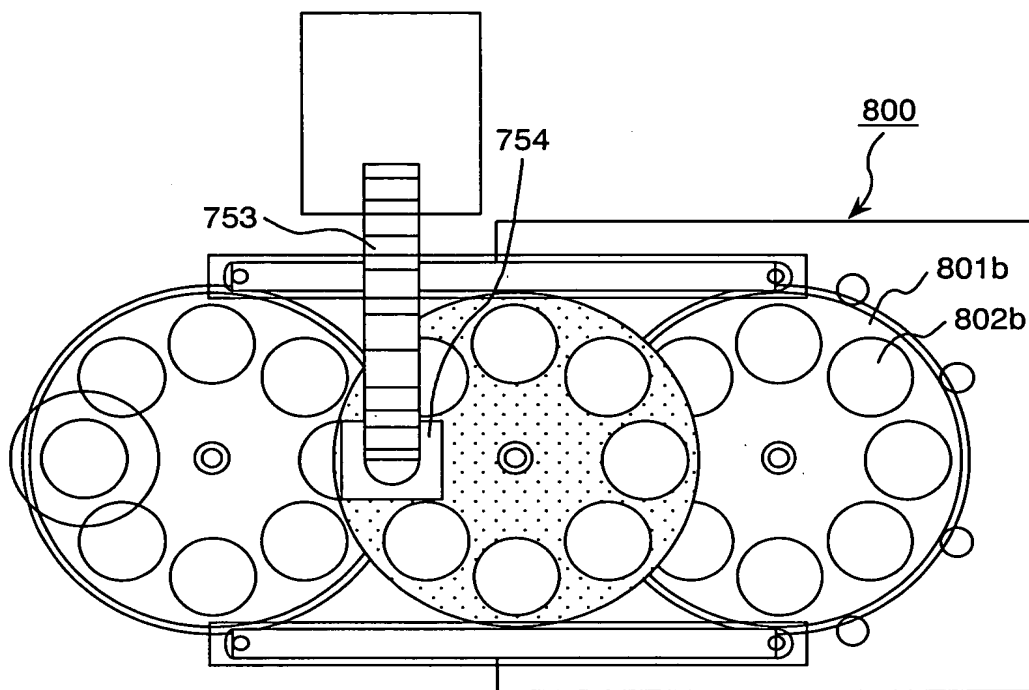
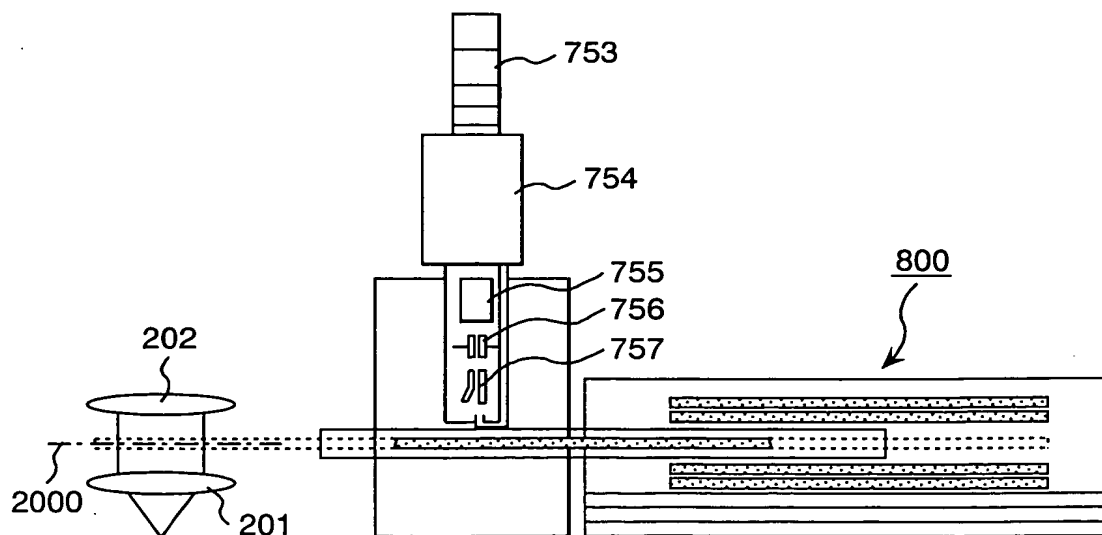
The table shows the relationship between the pattern on the wafer and the resulting Fourier transformed image. P1 is a large rectangular area, P2 is a small rectangular area, and P3 is a small rectangular area. The corresponding Fourier transformed images are FP1, FP2, and FP3. FP1 shows vertical lines, FP2 shows a grid pattern, and FP3 shows a pattern of plus signs.

**FIG. 6C**

OR OF FP1, FP2, AND FP3 OBSERVED  
FOURIER TRANSFORMED IMAGES

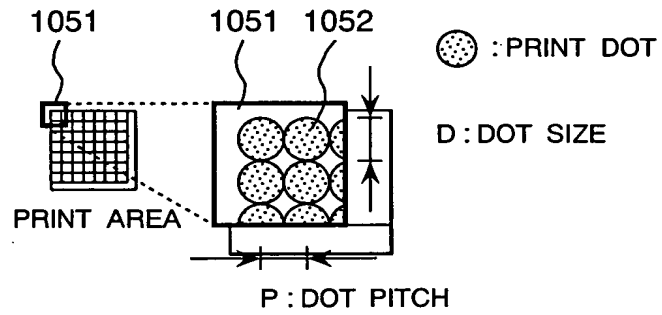


**FIG. 7****FIG. 8A****FIG. 8B**

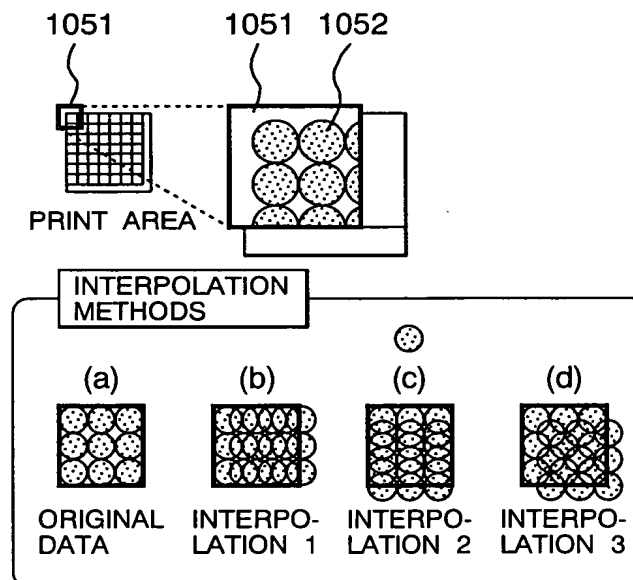
**FIG. 9A****FIG. 9B**



**FIG. 10**

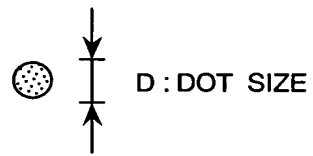
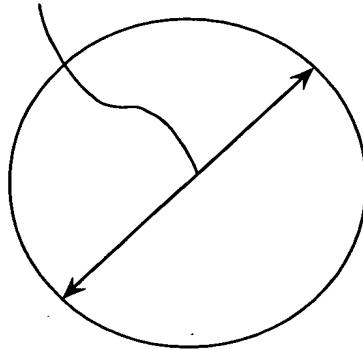


**FIG. 11**



**FIG. 12**

FOURIER TRANSFORM PLANE DIAMETER AND PRINT DOT SIZE

FOURIER TRANSFORM  
PLANE DIAMETER  $\phi$ 

$$D \leq \frac{1}{50} \phi$$